

ESTIMATE OF QUANTITIES

FOR BIDDING

FURNISH PIPE AND INSTALL

(DUCTILE IRON PUSH-ON RUBBER GASKET JOINT)

306 FT. - 8" WATER MAIN  
8 FT. - 6" HYDRANT BRANCH

INSTALL

1 - HYDRANT

REMOVE

1 - HYDRANT / MINOR

SERVICES

3 - CONNECT ORIGINAL SERVICE (C.O.S.-SHORT)

PERMANENT PAVEMENT

180 SQ. YDS. - 4" ASPHALT

CURB AND GUTTER

6 LIN. FT. - CONCRETE

BARRICADES AND TRAFFIC CONTROL

LUMP SUM

SAWCUTTING

335 LIN. FT. - IN ASPHALT

FINISHING OF ROADWAY

LUMP SUM

FURNISH, INSTALL, AND MAINTAIN EROSION CONTROL

LUMP SUM

235 CU. YDS. EXCESS EXCAVATED MATERIAL

FOLLOWING IS A LIST OF THE FITTINGS SHOWN ON  
THIS CONSTRUCTION PLAN THAT WILL BE PROVIDED  
BY THE CITY.

- 1 - AT 8x6
- 2 - B8x45
- 1 - V8
- 1 - V6
- 2 - VB-DD
- 2 - VB-D
- 3 - VALVE BOX 18" EXT.
- 1 - H (7.5)
- 1 - T 8x8

3 - 1" CORPORATION STOP

PAVEMENT TYPE

EXISTING PAVEMENT IN N. STRATHMORE AVE. IS 2.5" ASPHALT

EXISTING PAVEMENT IN W. KATHRYN AVE. IS 2.5" ASPHALT

EXISTING PAVEMENT IN W. HERBERT AVE. IS 2.5" ASPHALT

ABANDONMENT OF WATER MAINS, VALVES, AND HYDRANT BRANCHES

302' - 8" -1954-L WATER MAIN

- 1 - HYDRANT
- 1 - 8" VALVE

BENCHMARKS

HYDRANT - N/E COR @ HERBERT - ELEV+ 117.88

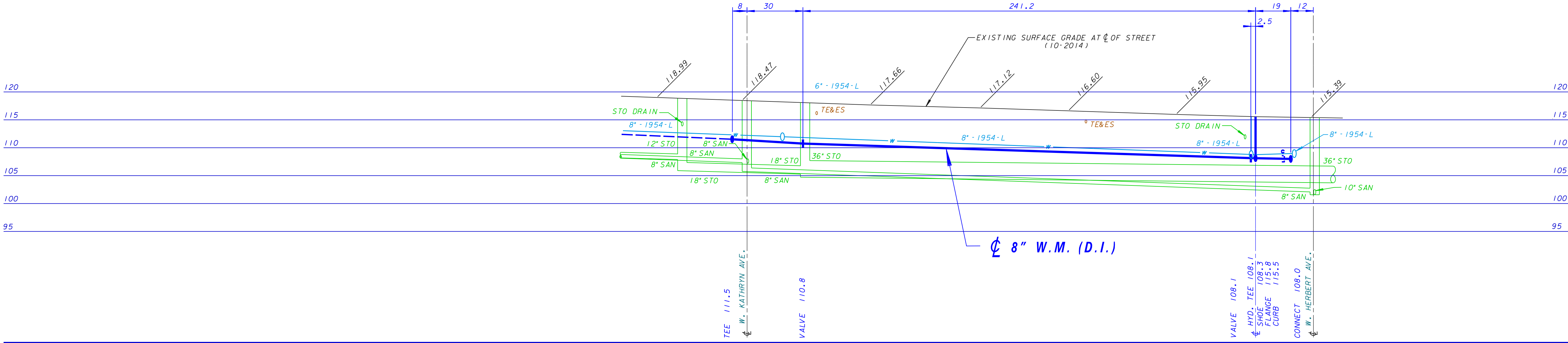
HYDRANT - S/W COR @ KATHRYN - ELEV+ 121.20

HYDRANT - E/S MID-BLOCK - ELEV+ 125.31

HYDRANT - S/E COR SHERIDAN - ELEV+ 135.73

PLAN LINE & UTILITY LEGEND

GAS .....	G	SANITARY SEWER .....	SAN	STREET LIGHTING .....	---
ELECTRIC .....	E	STORM SEWER .....	STO	CITY UNDERGROUND CONDUIT .....	CUC
TELEPHONE .....	T	COMBINED SEWER .....	CMB	PROPOSED CURB / PVMT	---
CABLE TELEVISION .....	TV	WATER MAIN .....	W	PAVING LIMITS	X X X X
FIBER OPTICS .....	FO	WATER SERVICE .....	---	STRUCTURE / BUILDING	///
PROPOSED UTILITY .....	---	PRESSURE DISTRICT .....	----	FENCE	x
POWER POLES	○-CONCRETE ○-ALUMINUM ○-WOOD	WATER MAIN VALVES	+	GATE	+
UTILITIES	⊞-TRAFFIC SIGNAL ⊞-TRAFFIC CONTROL BOX		○ <sup>G</sup> -GAS VALVE	BUTTERFLY	+
				W-SERVICE	○
				HYDRANTS	⊞-1 NOZZLE ⊞-3 NOZZLE



GENERAL NOTES

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF MILWAUKEE WATER MAIN INSTALLATION SPECIFICATIONS\*, DATED JANUARY 2, 1987. ADDITIONALLY, ALL WORK SHALL BE DONE IN ACCORDANCE WITH "THE MILWAUKEE WATER WORKS STANDARD PLAN NOTES REGARDING WATER MAIN CONSTRUCTION", WHICH IS ATTACHED AND MADE PART OF THESE WATER MAIN PLANS AND CONTRACT DOCUMENTS.

THE DEPARTMENT OF PUBLIC WORKS GENERAL SPECIFICATIONS, DATED JANUARY 31, 1992, LATEST REVISION, APPLIES TO THIS CONTRACT AND WILL SUPERSEDE ANY PART OF THE SPECIFICATIONS WHICH DIFFERS THEREFROM.

THE MILWAUKEE WATER WORKS WILL FURNISH WATER MAIN MATERIALS AS INDICATED IN SPECIFICATION SECTION 4.3.1. THE CONTRACTOR SHALL FURNISH TEMPORARY TEST CAPS AND PLUGS. THE CONTRACTOR SHALL FURNISH ALL OTHER ITEMS REQUIRED TO COMPLETE THIS PROJECT.

VALVE BOX BASE ADAPTERS

ALL VALVE BOXES SHALL BE INSTALLED ON GATE VALVES WITH THE USE OF THE VALVE BOX BASE ADAPTERS, "ADAPTOR 11" AS MANUFACTURED BY ADAPTOR INC. OR AN APPROVED EQUAL. THE ADAPTER SHALL BE INSTALLED IN ADDITION TO THE HARDWOOD BLOCKING. COST OF THE ADAPTER SHALL BE INCLUDED IN THE UNIT BID PRICE TO FURNISH AND INSTALL WATER MAIN.

BACKFILL AND BEDDING MATERIAL

THE REQUIREMENTS FOR BACKFILL AND BEDDING MATERIAL SHALL BE AS STATED IN THE "THE MILWAUKEE WATER WORKS STANDARD PLAN NOTES REGARDING WATER MAIN CONSTRUCTION".

HYDRANTS

THE CONTRACTOR SHALL RETURN ALL ABANDONED HYDRANTS TO THE DPW FIELD HEADQUARTERS - INFRASTRUCTURE, OPERATIONS, WATER WORKS, CONTACT MR. BEN GLATZEL AT 414-708-2839 FOR ADDITIONAL INFORMATION.

HYDRANT PERMITS

A \$65.00 HYDRANT PERMIT/USE FEE WILL BE PART OF THE HYDRANT USE PERMIT. THIS FEE IS PER HYDRANT PER WEEK.

IT IS THE INTENTION OF THE CITY OF MILWAUKEE TO METER AND RECORD ALL WATER USE ON THIS CONTRACT. THE CONTRACTOR MUST OBTAIN A HYDRANT PERMIT FOR THIS CONTRACT WHICH INCLUDES THE REQUIREMENT OF A METER TO MEASURE WATER USAGE. THIS PERMIT CAN BE OBTAINED FROM THE CITY'S DEVELOPMENT CENTER LOCATED AT 809 N. BROADWAY.

IF IT IS FOUND THAT THE CONTRACTOR IS NOT FOLLOWING THE STANDARD HYDRANT PERMIT USE RULES, THE CITY OF MILWAUKEE WILL TAKE NORMAL ENFORCEMENT ACTION.

MILWAUKEE WATER WORKS ONLY PROJECTS ISSUED THROUGH DPW

THE PERMIT REQUIRES THE CONTRACTOR TO PLACE A REFUNDABLE \$675.00 DEPOSIT FOR EACH METER TO BE USED. THE CONTRACTOR WILL NOT BE REQUIRED TO PAY \$325.00 FOR THE SETUP OF THE METER. THE \$65.00 HYDRANT PERMIT/USE FEE WILL BE WAIVED BY THE UTILITY. THE CONTRACTOR WILL NOT BE CHARGED FOR THE VOLUME OF WATER USED.

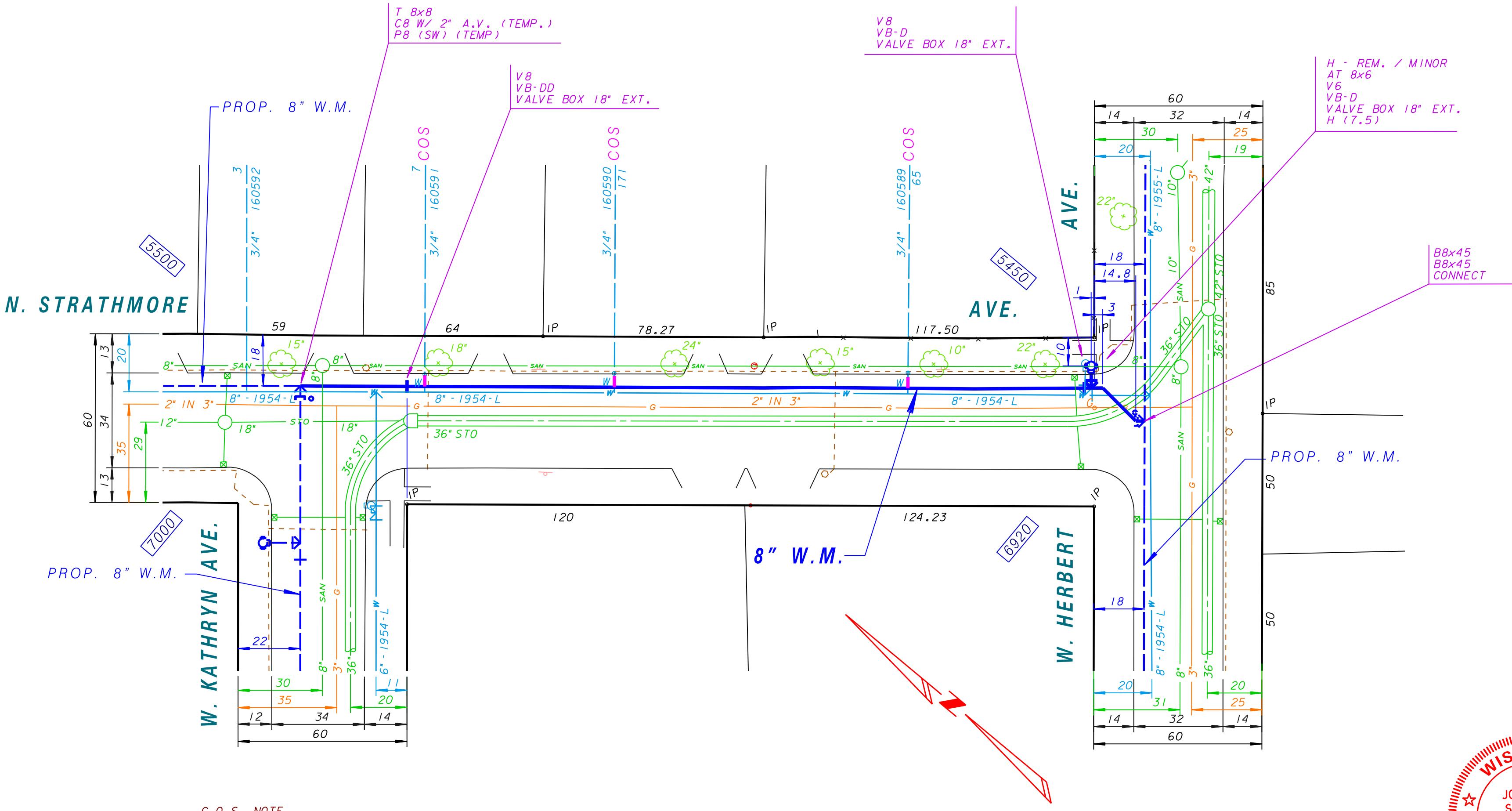
QUESTIONS, ARRANGING INSTALLATIONS, AND READINGS

MMW METER SERVICES DISPATCHER, 414-286-2865  
MMW METER SERVICES, 414-286-8010

JOINT RESTRAINT OPTION

DUCTILE IRON PIPE AND FITTINGS (EXCEPT HYDRANT BRANCHES) MAY BE RESTRAINED USING FIELDLOK OR MJ FIELDLOK RESTRAINT. BUTTRESSING MAY BE REQUIRED IN ADDITION TO THE FIELD LOK RESTRAINT.

CONTRACTOR SHALL NOTIFY MMW 414-286-8167 IF FIELD LOK RESTRAINT WILL BE USED PRIOR TO THE REQUIRED EROSION CONTROL SUBMITTAL. ADDITIONAL REQUIREMENTS FOR USE OF FIELD LOK RESTRAINT IS DETAILED IN THE STANDARD PLAN NOTES INCLUDED IN BID DOCUMENTS.



C.O.S. NOTE

TAPS REQUIRED FOR RE-CONNECTING SERVICES SHALL BE MADE BY THE CONTRACTOR. TAPS SHALL BE MADE AND CORPORATION STOPS INSTALLED PRIOR TO PRESSURE TEST. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONNECT ORIGINAL SERVICE.

CONTRACTOR SHALL FIELD LOCATE USING A PIPE LOCATOR, SIMILAR TO A RIGID PIPE LOCATOR. ALL BRANCHES AND SERVICES PRIOR TO TAPPING NEW WATER MAIN. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONNECT ORIGINAL SERVICE.

ABANDONMENT OF VALVE BOXES

IN ACCORDANCE WITH SECTION 5.14.5 OF THE CITY OF MILWAUKEE "WATER MAIN INSTALLATION SPECIFICATIONS", WHEN VALVES OR CURB STOPS ARE TO BE ABANDONED, THE CONTRACTOR SHALL REMOVE ONLY THE TOP SECTION OF THE VALVE OR SERVICE BOX AND BACKFILL THE REMAINING HOLE WITH GRAVEL. ALL VALVE AND CURB STOP BOXES ON MAINS ABANDONED AS PART OF THE CONTRACT SHALL BE ABANDONED IN THIS MANNER. THE ABANDONMENT SHALL INCLUDE ALL NECESSARY PAVEMENT OR SOD REPLACEMENT.

VALVE NOTE

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL NEW WATER MAIN, HYDRANT AND BRANCH VALVES ARE IN THE OPEN POSITIONS FOLLOWING THE FINAL WET CONNECTION. ALL CITY OF MILWAUKEE VALVES ARE OPEN RIGHT "CLOCKWISE".



**CALL DIGGERS HOTLINE**  
1-800-242-8511  
TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND  
BEFORE YOU DIG. WISCONSIN STATUTE 182.015 REQUIRES  
MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE



10501 W. Research Drive • Milwaukee, WI 53228  
Phone: (414) 771-3390

SCHEDULE

NO WORK SHALL BEGIN PRIOR TO MARCH 16, 2015. NO WORK SHALL BEGIN ON N. STRATHMORE AVE. PRIOR TO JUNE 8, 2015. ALL WORK, INCLUDING PAVEMENT RESTORATION, SHALL BE COMPLETED BY JULY 17, 2015.

EACH PROJECT IN THIS CONTRACT IS ASSIGNED AN ALLOWABLE NUMBER OF PROJECT WORKING DAYS. A PROJECT WORKING DAY IS DEFINED AS ANY DAY THE CONTRACTOR IS ABLE TO WORK A MINIMUM OF FOUR (4) HOURS TOWARDS COMPLETION OF THE PROJECT. FOLLOWING IS A LIST OF WATER MAIN INSTALLATION PROJECTS INCLUDED IN THIS CONTRACT AND THE ALLOWABLE PROJECT WORKING DAYS FOR EACH:

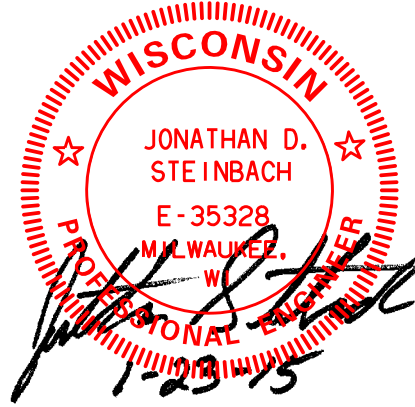
N. STRATHMORE AVE. FROM W. HERBERT AVE. TO W. SHERIDAN AVE., PLAN FILE NOS 2015012, 2015013. - 26 WORKING DAYS.

W. HERBERT AVE. FROM N. STRATHMORE AVE. TO W. TALLMADGE PL., PLAN FILE NOS. 2015014, 2015015 - 29 WORKING DAYS.

W. KATHRYN AVE. FROM N. STRATHMORE AVE. TO N. 72ND ST., PLAN FILE NO. 2015016 - 23 WORKING DAYS.

PLAN NOTES ARE CONTINUED ON N. STRATHMORE AVE., SHEET 2 OF 2, PLAN FILE NO. 2015013.

NO.	BY	REVISION	DATE
1	TAM	M.W.W. REVIEW	1-26-15



<b>Milwaukee Water Works</b>	<b>Water Engineering</b> Department of Public Works
<b>WATER MAIN</b>	
<b>IN N. STRATHMORE AVENUE</b>	
<b>FROM W. HERBERT AVE.</b>	
<b>TO W. SHERIDAN AVE.</b>	
APPROVED <i>Jonathan D. Steinbach</i> 1-25-15 CHIEF DESIGN ENGINEER	DATE 1-30-15
DRAWN BY C.M.B.	CHIEF DESIGN ENGINEER 1-30-15
CHECKED BY J.D.S.	SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS 1-30-15
SURVEY BY EMCS, INC.	PROGRAM NO. 2015-663
PROJECT NO. WT410150663	CONTRACT NO. 2015-663
OFFICIAL NOTICE NO. 35-1-2015	C.C. FILE NO. 141515
DATE ADOPTED 2-10-15	
<b>SHEET NO. 1 OF 2 PLAN FILE NO. 2015012</b>	